



Prevention of Occupational Cancer Symposium S24



NEW 2017 Data

Sources: ILO, WHO, Scientific reports



Global figures

2017

- Estimated **2.78** million deaths
- Fatal occupational accidents **380,500**
- Non-fatal occupational accidents **374** million (at least 4 days absence)
- Fatal work-related diseases **2.4** million
- Occupational cancer **742,000**

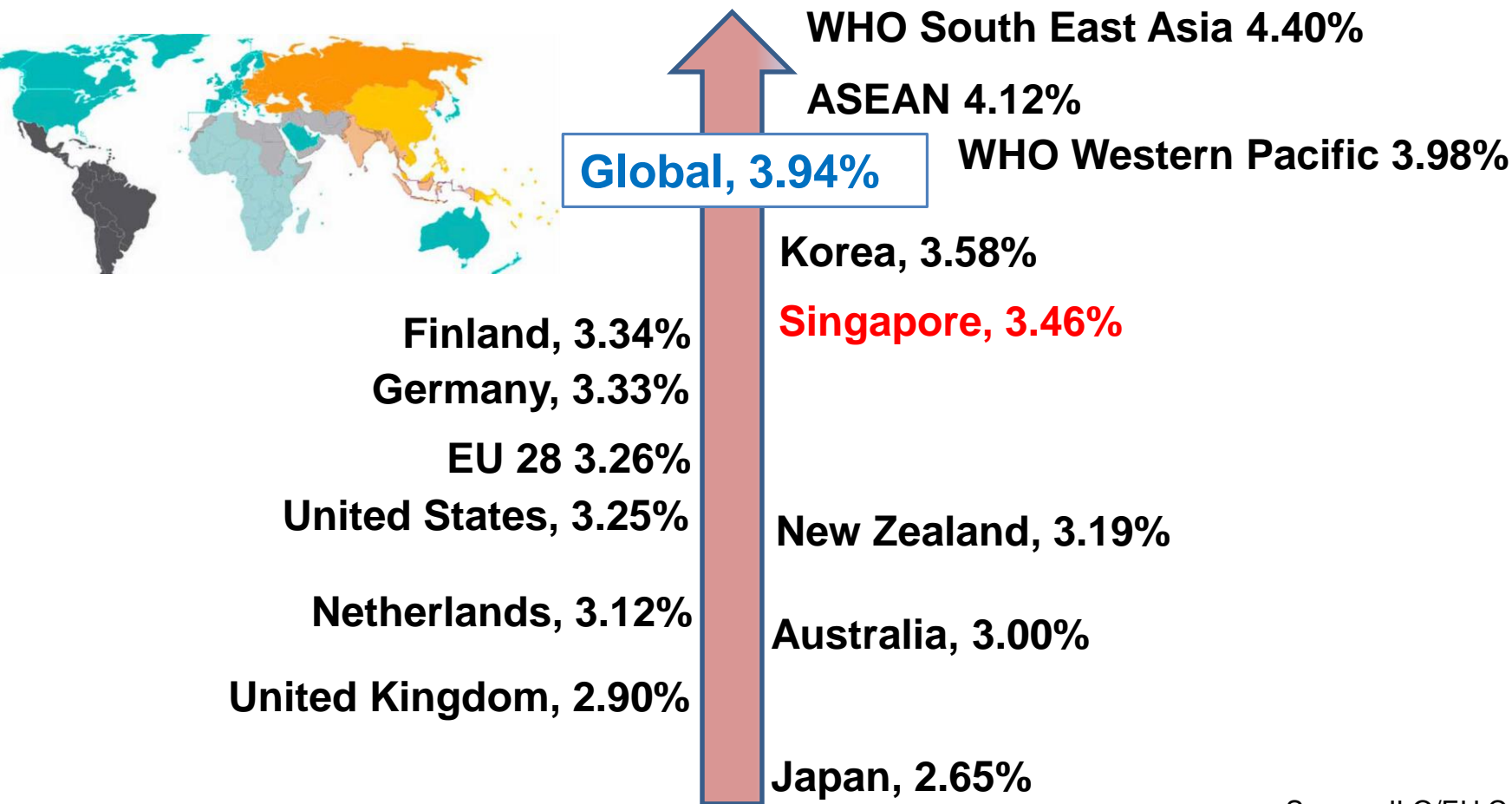
2014

- Estimated **2.32** million deaths
- Fatal occupational accidents **341,373**
- Non-fatal occupational accidents **302** million (at least 4 days absence)
- Fatal work-related diseases **1.98** million
- Occupational cancer **666,000**



Cost Comparison with selected countries

As a proportion of GDP, cost of work-related injuries and ill-health



Source: ILO/EU Cost Estimates of Occupational Accidents and Work-related Diseases, 2015

Sources: ILO, WHO, Scientific reports



International Labour Organization

GLOBAL ESTIMATES OF OCCUPATIONAL ACCIDENTS AND WORK-RELATED ILLNESSES 2017

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<https://goo.gl/z3gNvg>

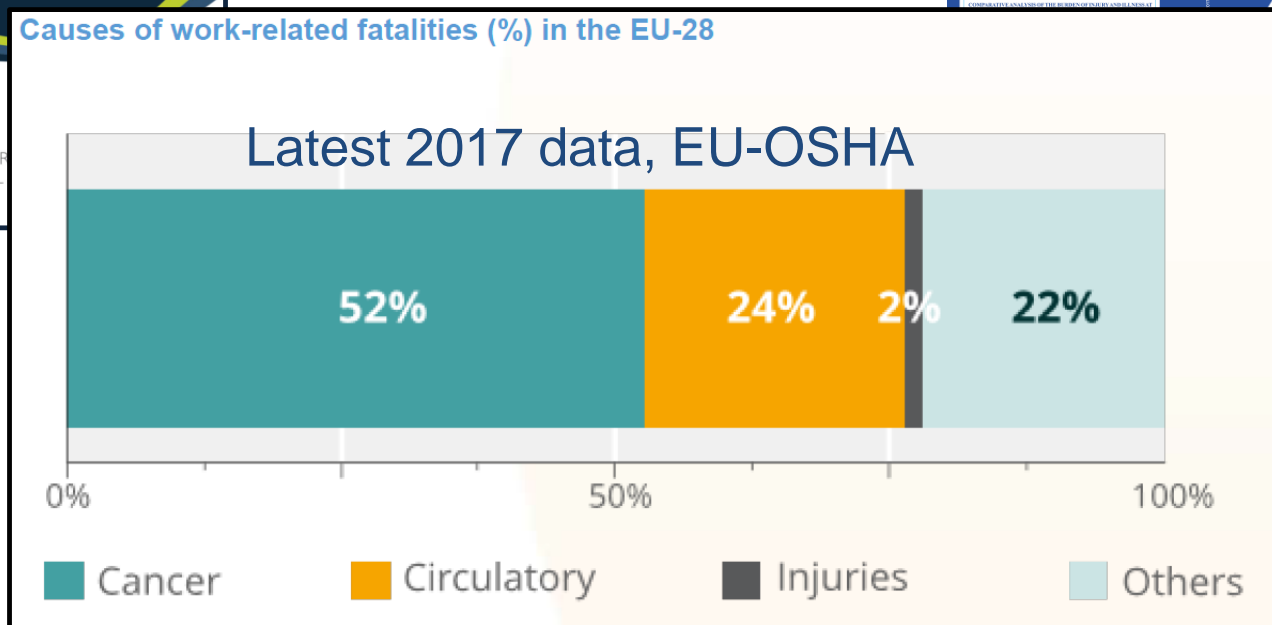
Global figures

Comparative analysis www.omfi.hu/cejoem
based on past 2014 country data

COMPARATIVE ANALYSIS OF THE BURDEN OF INJURY AND ILLNESS AT WORK IN SELECTED COUNTRIES AND REGIONS



Causes of work-related fatalities (%) in the EU-28

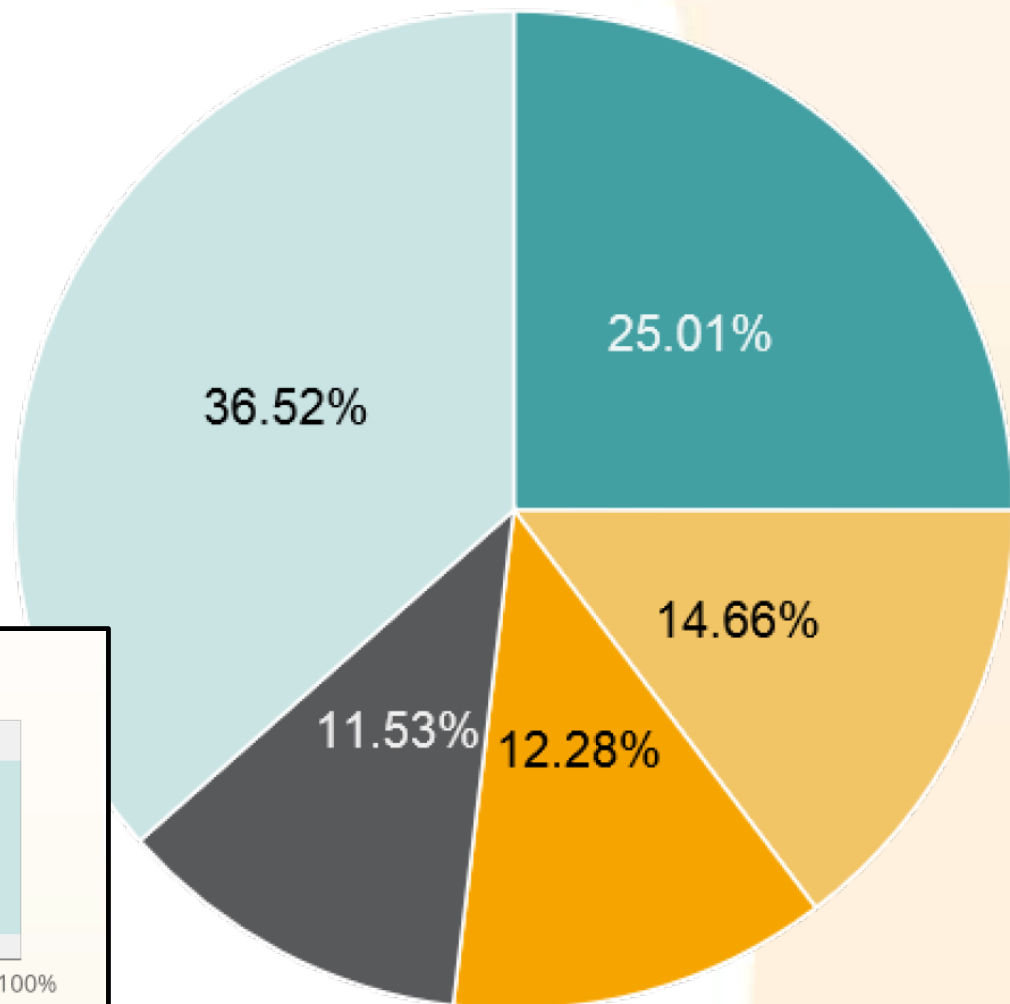


<https://osha.europa.eu/en/about-eu-osha/press-room/eu-osha-presents-new-figures-costs-poor-workplace-safety-and-health-world>

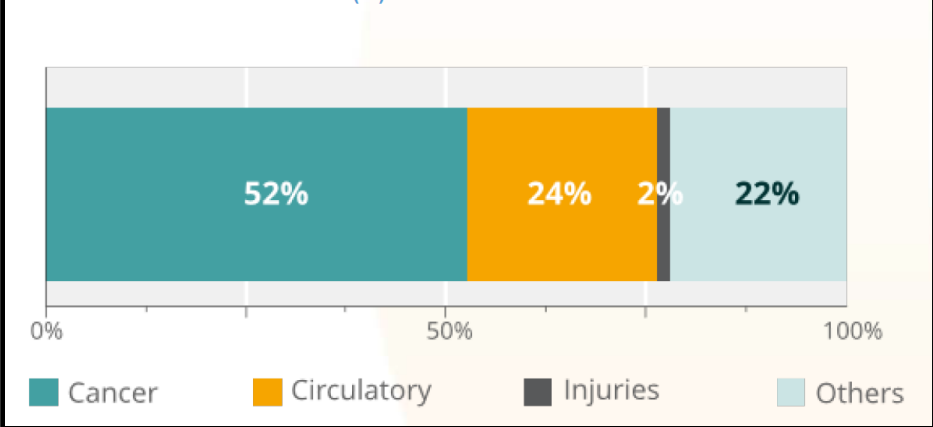


EU-28 proportion (%) of the main causes for work-related mortality and morbidity in DALYs per 100,000 employees

Latest 2017 data, EU-OSHA, WSH-Institute, ICOH



Causes of work-related fatalities (%) in the EU-28



■ Cancer ■ MSD ■ Circulatory ■ Injuries ■ Others

Economic Costs of Work-related injuries and ill-health Study Coalition Estimates **NEW**

EU28 losses **528 * 10⁹ USD, 3.26% of the EU GDP**

Occupational cancer 132 * 10⁹ USD, 0.815% of the EU GDP

- RIVM Institute, Netherlands: (range 242-440 * 10⁹ EUR) 334 * 10⁹ EUR

- EU Commission: Value of Statistical Life, VSL=4 million EUR 425 * 10⁹ EUR

United States losses **583 * 10⁹ USD, 3.25% of USA GDP**

China **430 * 10⁹ USD, 3.96% of China GDP**

Global, estimated countr. **2,547 * 10⁹ USD, 3.94% of global GDP**

Global, latest GDP, all cntr. **2,966 * 10⁹ USD, 3.94% of global GDP**

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US+EU+CN = combined total GDP of poorest 130 countries



Estimated Global **Mesothelioma Deaths** (Annual N*), based on WHO data.

* Reported N in 59 countries, estimated M in 172 countries, Odgerel, Takahashi et al.

Deaths at Work/All

Extrapolation method	Reported Global	Non-reported, adjusted Global	China/EU28
(1) Best estimate, asbestos consumption adjusted	15,011*	23,377	
(2) Estimates based on asbestos use, All GBD 2015 and best estimates Work AF _{meso.work} = 94.9% Rushton et al., (2012)	32,373 (IHME) - 38,400 (new) 22,822 (IHME) - 36,400 (new)		China: 4,512 (GBD/IHME 2015 all) EU28: 11,404 (GBD/IHME 2015 all)
(3) Reported/Estimated by continent, employment and asbestos adjusted, other EU estimates, all	15,011	21,247- 23,377	EU: 8,363 Odgerel, Takahashi et al 2016 all EU: 10,368 Takala 2015 all

Asbestos related lung cancer and other asbestos related deaths (Takala et al, not published)

Methods of estimated lung cancer deaths using mesothelioma as a proxy for asbestos use	Lung cancer/ mesothelioma rate	Asbestos related lung, other cancer (and other asbestosis) deaths	
		World	China/EU28
McCormack, Peto et al. (2013) average estimate using chrysotile, lung cancer, all , GBD 2015 Study	6.1	197,475	
McCormack, Peto et al. (2013), low - high estimates, lung cancer, all, GBD	2.0-10	64,746 – 323,730	
Nurminen, Karjalainen, (2001) using mixed fibres, asbestos exposure verified by lung tissue fibre counting, lung cancer, all, GBD	3.525	137,475	
GBD based rate on global asbestos-related lung cancer and mesothelioma at work: 154,601/22,822=6.77436 , GBD, (2015) Ovary and larynx cancers, GBD, (2015) Asbestosis, GBD, (2015)	6.77	177,423 _{work} - 283,221 _{work} 2,802 _{work} 3,597 _{work}	<i>based on GBD/IHME 2015_{work}</i> Area meso/ARLC/Ova/Lary EU28 9,664/56,461/335/440 China 2,477/24,405/294/199 Earth 22,822/154,601/1397/1405

Global asbestos deaths, work: 183,822 – 289,621 Mid-point 236,700

All asbestos exposed, global: 258,078 - 304,841 Mid-point 281,500

For discussion

